

Subject: INFO-HAMS Digest V89 #933  
To: INFO-HAMS@WSMR-SIMTEL20.ARMY.MIL

INFO-HAMS Digest                      Sun, 26 Nov 89                      Volume 89 : Issue 933

Today's Topics:

                    airport security  
                    amsat bbs  
                    Antique Newsgroup?  
                    Contests  
                    Every one uses them -how do they work?Matching networks-  
                    scanner laws  
                    The End of Amateur Radio {3/3}  
                    The End of Amateur Radio {Part 1/3}  
                    transverters

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Date: 26 Nov 89 15:56:00 GMT  
From: ndcheg!ndmath!nstar!usenet!nstar!akcs.larry@iuvax.cs.indiana.edu (Larry Snyder)  
Subject: airport security

I have carried a handheld aircraft radio (both transmit/receive) on board US Air flights without problems.

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Date: 26 Nov 89 20:24:54 GMT  
From: microsoft!joehol@uunet.uu.net (Joe Holman)  
Subject: amsat bbs

anybody have the current AMSAT BBS phonne number ?

please send if you do...

73 Joe

microsoft!joehol  
uw-beaver!joehol@microsoft.uucp

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Date: 25 Nov 89 17:17:48 GMT  
From: cs.utexas.edu!natinst!sequoia!texbell!swbatl!adams@tut.cis.ohio-state.edu (4237)  
Subject: Antique Newsgroup?

Is there, a newsgroup appropriate for the discussion of antiques and

collectables? If so would someone please direct me to it. If not, are there others interested in starting a mailing list?

My interests include antique radios, books, and books about radio as well as furniture restoration, auctions and collecting trivia. There seems to be a few people in rec.arts.books interested in book collecting, a few in rec.woodworking interested in antique restoration, and a few in sci.electronics interested in antique radio and radio history but no forum dedicated to the (admittedly limited) audience for these topics. Perhaps they could coexist in a mailing list. I will volunteer to run said list, at least at the beginning.

Any interest?

Send mail to uunet!swbatl!adams or adams@swbatl.swbt.com  
please have the word antique in the subject line. The perl  
mailing list is swamping my in box :).

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#   ---Tom Adams---   | uunet!swbatl!adams or adams@swbatl.swbt.com
# I collect pre-1930 wireless, electrical and scientific books.
# opinions... Opinions? I don't think I'm allowed to have opinions.
--
#   ---Tom Adams---   | uunet!swbatl!adams or adams@swbatl.swbt.com
# I collect pre-1930 wireless, electrical and scientific books.
# opinions... Opinions? I don't think I'm allowed to have opinions.
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Date: Sun, 26 Nov 89 15:32 CST  
From: "James P. Ley" <LEY%UWSTOUT.BITNET@CUNYVM.CUNY.EDU>  
Subject: Contests

On occasion I hear "CQ Contest" on the air. I do not participate in contests myself and wonder whether I should answer the call and give the caller a contact or whether I would be a hinderance since I don't know all the numbers and things that the testers use and would thus slow him or here down.

Any advice from testers?

Jim, NX9F

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Date: 26 Nov 89 20:04:10 GMT  
From: fe2o3!michael@mimsy.umd.edu (Michael Katzmann)  
Subject: Every one uses them -how do they work?Matching networks-

In article <4140002@hpnjld.HP.COM> eyg@hpnjld.HP.COM (Ed Gilbert tel 586-5903) writes:

>> Can any one suggest the network best suited for antenna-matching and perhaps  
 >> briefly explain why and how these networks can transform impedances and  
 perhaps

>> how one might go about home-brewing his own??

>

>The most practical matching network for matching a wide range of unbalanced  
 >loads to 50 ohms is the tee network. Schematically it looks like

>

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>          ----- X1 ----- X2 -----
>                      |
>          Zg          X3          Zl
>                      |
>          -----
>

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>This works best when X1 and X2 are the same type of reactance, and opposite  
 >of X3. Usually X1 and X2 are capacitors, X3 an inductor, which makes  
 >the overall circuit have a high-pass filter frequency response. If  
 >X1 and X2 are selected to have capacitive reactance of ~100 ohms  
 >at maximum C, and X3 ~100 ohms at maximum L, you'll be able to match  
 >loads anywhere from 1 ohm to over 1000 ohms at some combinations of  
 >the 3 reactances. Somewhere I have a C program which cranks out tables  
 >of Zl for 50 ohm Zg while sweeping X1, X2, and X3 over their ranges.  
 >I can dig this up and email to you if you're interested.

A very good technical note appears in the Motorola RF Databook (Vol 2) AN721.  
 To explain how you get a change in impedance, first put a reactance, say  
 a capacitor C in series with your load R. Then do the mathematics to change  
 the  $(R-jX_c)$  to  $(G+jY_c)$ . i.e. a series to parallel conversion. Looking  
 at it as a two-port black box they are both the same. When you do this  
 transformation you will see that the G value (conductance) is not the same  
 as simply  $1/R$  !!! Thus if we resonate out the capacitive reactance that we  
 have added (Y) with a -Y inductor, our original R is transformed to  $1/G$ .  
 This is one of the simplest L-matching networks. Other types, Pi etc help  
 with broadbanding and can be made to work over a larger range.

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 email to

UUCP: uunet!mimsy!{arinc,fe203}!vk2bea!michael

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Amateur  |   VK2BEA   (Australia)   ' ) ) )   - /           //
Radio    |   G4NYV    (United Kingdom) / / / o _ . / _ _ _ . _ //
Stations|   NV3Z     (United States)   / ' ( _ ( _ _ / / _ ( _ / _ < / _ < / _

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Date: 26 Nov 89 19:13:24 GMT  
From: elbereth.rutgers.edu!hardees.rutgers.edu!jschwart@rutgers.edu (Jeff Schwartz)  
Subject: scanner laws

I am more than a little confused with all the talk over so called scanner laws. I once saw a copy of a senate bill from the state of NJ. stating that the only people in the state permitted to have a scanner in their cars was rescue workers and hams with a Tech license or higher. Now I hear that isn't the case.

I am planning a long road trip from N.J. to Florida in about a month. I would like to bring my H.T. along (receives police and fire as well) and I am wondering what various state laws are as of now on this matter.

The states I am in need of info for are

New Jersey  
Delaware  
Maryland  
Virginia  
North Carolina  
South Carolina  
Georgia  
and Florida.

Any info would be most helpfull

Thanks in advance,

--

jschwart@hardees.rutgers.edu

-Jeff  
Amateur Call: KA2Q0U

Jeff Schwartz  
RPO 6129 Box 5063  
New Brunswick, New Jersey 08903  
(201) 878-2340

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Date: 26 Nov 89 22:00:39 GMT

From: shelby!neon!bodega.stanford.edu!paulf@decwrl.dec.com (Paul Flaherty)  
Subject: The End of Amateur Radio {3/3}

In retrospect, a number of factors doomed a hobby once enjoyed by millions. Probably the largest and most important of these was a lack of tangible justification of the hobby. The recent rebirth of hobbyism within American society has brought to light many intangible factors which could have formed a more stable footing for amateur radio, had we known and appreciated them at the time.

The foremost of these is the use of technology as recreation, and that intellectual forms of play are at least as important as physical recreation to well being. Despite the canned nature of ham radio equipment in the early 1990s, there was still a significant intellectual challenge to setting up a station, operating, and solving the myriad of little problems that would spring up from time to time. The practice of diagnosing a complex system is inherently necessary for the development of nested thinking, recognized by most psychologists as an important vehicle for intellectual development.

Moreover, ham radio provided a social outlet for thousands of technically oriented persons, whom society had shunned as "geeks" and "wierdos". A technophilic teenager could find a mentor in the ranks of the hackers and tinkerers on the air. Ham radio was used extensively by the first generation of home computer enthusiasts, who were geographically isolated, but bound by the common desire to exploit and develop a new technology.

Perhaps the period author Steven Levy best described the intellectual joy of hacking around with technology; of being part of a society where "one's social status was only related to the ability to hack". It was clear that such intangibles were known to organizations and authors at the time; they simply did not recognize them for the basic human needs that they were.

These factors, together, are part of a greater whole and form a political right known as intellectual freedom. The right to explore the universe as one sees fit was not a legally recognized freedom until the California Revolt of 2019. Originally one of the founding planks of the People's Republic of Berkeley, and later incorporated into the California Constitution, Intellectual Freedom, the right to follow one's curiosity, has resulted in an explosion of experimental activity within the New Republic.

And, it may be noted, that on a rainy, Pacific Coast's eve, that once again the airwaves are filled with the clicks, whirrs, beeps, fades, pops, and distorted, joyous human voices that tickle the axons and neurons of its basement dwelling hobbyists. The California Kilowatt Lives!

-Paul Flaherty, N9FZX | "I asked for a dissertation topic, and for my  
->paulf@shasta.Stanford.EDU | sins, they gave me one."

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Date: 26 Nov 89 22:20:41 GMT  
From: shelby!neon!bodega.stanford.edu!paulf@decwrl.dec.com (Paul Flaherty)  
Subject: The End of Amateur Radio {Part 1/3}

In article <31966@cci632.UUCP> dvh@cci632.UUCP (David Hallidy) writes:  
>sure any prospective hams or new hams will think twice about what  
>they're about to get into.

Frankly, I don't think I'm capable of scaring anyone who has read any of  
the ARRL's "advertising" and not been turned off...

>About all we've been seeing on this newsgroup lately are the whinings  
>of DeArmond (with his "Ham Radio is useless" tripe) and things like  
>the posting to which I am directly responding. Frankly, I'm REAL TIRED  
>of it. There is plenty of positive stuff going on, yet, just like on  
>TV, it's not sensational so it doesn't get mentioned.

The genesis of this set of articles was a dinner meeting that I had with a  
few hams about two weeks ago. These were not your ordinary "sit on your  
hands and bitch" - type hams. These were people who have contributed to  
the hobby, some dramatically so. Although we met to discuss the development  
of packet radio, most of the evening was spent discussing what many thought  
was a serious problem. Personally, what transpired that evening really shook  
me up; I'd always dismissed "The End of Amateur Radio" as something that has  
been predicted since the days of the spark gap. Not any more.

>I realize "The End of Amateur Radio" was written to wake people up so  
>that something could be done to keep the story from coming true, but  
>unless parts 2 & 3 have a positive ending (which I doubt),

Stories of this genre (eg, \_Fail Safe\_ et al) must go to their logical  
conclusion if they are to have any positive emotive effect beyond "gee,  
isn't that nice". Frankly, to quote Stephen King, "I want to scare the  
hell out of people". But the third and final segment is an analysis of what  
could have been done, which is why I waited to respond to your article.

> what's more  
>likely to happen is that it will have the effect of hastening the  
>conclusion by giving those few of us that still look at ham radio as a  
>positive experience a feeling of futility.

To the contrary, Dave, let it be known that there are lots of people who  
are being frustrated, and that they're not alone. American society is  
crisis driven; when people wake up and see what's happening, only then  
will something be done...

-=Paul Flaherty, N9FZX | "I asked for a dissertation topic, and for my  
->paulf@shasta.Stanford.EDU | sins, they gave me one."

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Date: 26 Nov 89 17:14:38 GMT  
From: attctc!mjbtn!root@ames.arc.nasa.gov (Mark J. Bailey)  
Subject: transverters

Hello,

I am interested in getting more information about transverters that work with an HF rig. What VHF/UHF bands can be used? What are some of your personal experiences and comments on them? Who makes them and how can I get in touch with some of these dealers/manufacturers? What I really want to do is add 2 meters (some form) with my Icom IC-740. It is capable of working with a transverter. It might also prove convenient to get access to 50, 220, and 450 MHz, I don't know. Right now, I know next to nothing about them and have had a hard time finding information. Any good articles in past 73's, CQ's, Ham Radio's, or QST's?

Any and all comment would be \*GREATLY\* appreciated!

Thanks in advance!

Mark.

--  
Mark J. Bailey, N4XHX "Ya'll com bak naw, ya hear!"  
USMAIL: 511 Memorial Blvd., Murfreesboro, TN 37129 -----  
VOICE: +1 615 893 0098 | JobSoft  
UUCP: ...!{ames,mit-eddie}!attctc!mjbtn!mjb | Design & Development Co.  
DOMAIN: mjb@mjbtn.MFEE.TN.US CIS: 76314,160 | Murfreesboro, TN USA

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End of INFO-HAMS Digest V89 Issue #933  
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